

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001305**Date Inspected:** 23-Sep-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, Cross Beam #2, Miscellaneous Metal,**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Attend to report writing and project documentation.

Cross Beam #2

External surfaces which were repaired on 09-22-09 were rejected by ABF QA Bill Oak as ZPMC neglected to remove water from the top of the cross beam per the directive of ABF on 09-22-09. ZPMC currently in process of sanding down marred defective area of side plate to perform required repairs.

Miscellaneous Metal

Traveler Rail Brackets

ZPMC requested a "Final Inspection" of (9) brackets which were repaired and re-topcoated. Surfaces when viewed exhibited "Shadow Through" of the Finish coat to the underlying primer of Interzinc 52, repairs and additional coating application required in localized areas.

Lift 3 West

ZPMC personnel were in process application of Interzinc 22 on internal "U" rib stiffeners areas which were found to have low Dry Film Thickness (DFT). Caltrans QA Lumley observed in process application and checked ambient conditions which were found not suitable for application to continue. ZPMC QC ceased application of coating.

Lift 4 West

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## SOURCE INSPECTION REPORT

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Internal surfaces which were found to exhibit “Rust Staining” and mechanical damaged areas of the Side Plates and Bottom Plate floor areas and “T” stiffeners were in process of undergoing abrasive blasting to subsequent areas. Blasted areas which were previously blasted were viewed to exhibit “Rustback” due to light rain and unsatisfactory ambient conditions for abrasive blasting operations. Caltrans Qa Lumley informed ZPMC QC that all work performed was rejected and would require re-abrasive blasting prior to application of coating. ZPMC ceased abrasive blasting operations.

### Tower Double Diaphragms

Base metal surfaces of (4) Tower double diaphragms were de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations. Diaphragm codes: WSD1-131M, WSD1-135M, WSD1-139M, WSD1-143M

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

Caltrans QA Lumley received a telephone call from ABF QA Bill Oak informing that ZPMC had not removed the water from the Top Plate of Cross Beam #2 prior to performing repairs to vertical surfaces with Interfine 979 and that the repair area was damaged from water run off and required re-repairs.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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